



INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete If Known	
		Application Number	10/087,153
		Filing Date	February 28, 2002
		First Named Inventor	PAVLOVSKAIA, ELENA
		Art Unit	3732
		Examiner Name	MANAHAN, TODD E.
Sheet 1 of 9	Attorney Docket Number	018563-002910US	

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No.*	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS								
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		Country Code ²	Number ³	Kind Code ² (if known)				
	1	EP	0091876	A1	10-19-1983	Duret		<input checked="" type="checkbox"/>
	2	EP	0299490	A2	01-18-1989	Steinbichler et al.		<input checked="" type="checkbox"/>
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	6	EP	0731673	B1	09-18-1998	Andersson et al.		<input type="checkbox"/>
	7	EP	0774933	B1	05-28-1997	Oden et al.		<input type="checkbox"/>
	8	FR	2652256	A1	03-29-1991	Jourda		<input checked="" type="checkbox"/>
	9	FR	2369828	A1	06-02-1978	Suyehiro		<input checked="" type="checkbox"/>
	10	WO	90/08512	A1	08-09-1990	Dolphin Imaging Systems		<input type="checkbox"/>
	11	WO	91/04713	A1	04-18-1991	Jourda et al.		<input type="checkbox"/>
	12	WO	94/10935	A1	05-26-1994	Ormco Corporation		<input type="checkbox"/>
	13	WO	98/44865	A1	10-15-1998	Nobel Biocare		<input type="checkbox"/>
	14	WO	98/58596	A1	12-30-1998	Align Technology		<input type="checkbox"/>

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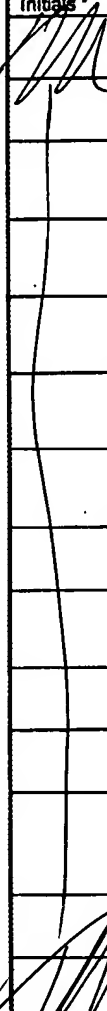
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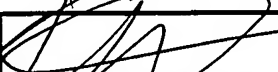
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	26	BEGOLE et al., "A Computer System for the Analysis of Dental Casts," The Angle Orthodontist, Vol. 51 No. 3 (July 1981), pp. 253-259.	
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	28	BHATIA et al., "A Computer-Aided Design for Orthognathic Surgery," British Journal of Oral and Maxillofacial Surgery, Vol. 22 (1984), pp. 237-253.	
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[Signature]	43	CURETON, "Correcting Malaligned Mandibular Incisors With Removable Retainers" <i>J. Clin. Orthod.</i> , 30:390-395, 1996.	
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[Signature]	53	DURET, "The Dental CAD/CAM, General Description of the Project," <i>Hannson International Product Brochure</i> , Jan. 1986., 18 pages total.	
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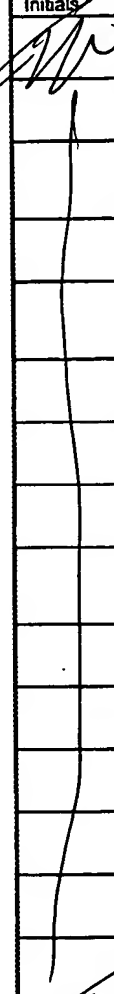
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	104	STOLL et al., "Computer-aided Technologies in Dentistry" (Article Summary in English, article in German), <i>Dtsch Zahnärztl Z</i> 45, 314-322, 1990.		

Examiner Signature		Date Considered	12-1-03
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.


Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/087,153		
		Filing Date	February 28, 2002		
		First Named Inventor	PAVLOVSKAIA, ELENA		
		Art Unit	3732		
		Examiner Name	MANAHAN, TODD E.		
Sheet	8	of	9	Attorney Docket Number	018563-002910US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	105	U.S. Department of Commerce, National Technical Information Service, "Automated Crown Replication Using Solid Photography SM," Solid Photography Inc. Melville NY, October 1977, 20 pages total.	
	106	U.S. Department of Commerce, National Technical Information Service, "Holodontography: An Introduction to Dental Laser Holography," School of Aerospace Medicine Brooks AFB Tex, March 1973, 37 pages total.	
	107	U.S. Provisional Patent Application No. 60/050342, filed on June 20, 1997, 41 pages total.	
	108	VAN DER LINDEN et al., "Three-Dimensional Analysis of Dental Casts by Means of the Optocom," <i>J Dent Res</i> , July-August 1972, Vol. 51, No. 4, p. 1100.	
	109	VAN DER LINDEN, "A New Method to Determine Tooth Positions and Dental Arch Dimensions," July-August 1972, p. 1104.	
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	111	VÁRADY et al., "Reverse engineering of geometric models—an introduction. Computer-Aided Design, 29 (4):255-268, 1997.	
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	115	WILLIAMS, "Dentistry and CAD/CAM: Another French Revolution," <i>Journal of Dental Practice Admin.</i> , Jan./March 1987, pp. 2-5.	
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	117	WISHAN, "New Advances in Personal Computer Applications for Cephalometric Analysis, Growth Prediction, Surgical Treatment Planning and Imaging Processing," Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery Presented on September 13, 1990, AAOMS 72nd Annual Meeting and Scientific Sessions, Sept. 13, 1990, New Orleans, <i>Journal of Oral and Maxillofacial Surgery</i> , Vol. 48, no. 8, Supp. 1, August 1990, p. 5.	
	118	YAMAMOTO et al., "Three-Dimensional Measurement of Dental Cast Profiles and Its Applications to Orthodontics," Annual Int'l Conf. of IEEE Engineering in Medicine and Biology Society, Vol. 12, No. 5, pp. 2051-2053, 1990	

Examiner Signature 	Date Considered	12-1-05
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* EXAMINER's initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete If Known	
				Application Number	10/087,153
				Filing Date	February 28, 2002
				First Named Inventor	PAVLOVSKAIA, ELENA
				Art Unit	3732
				Examiner Name	MANAHAN, TODD E.
Sheet	9	of	9	Attorney Docket Number	018563-002910US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	119	YAMAMOTO et al., "Optical Measurement of Dental Cast Profile and Application to Analysis Of Three-Dimensional Tooth Movement in Orthodontics," <i>Frontiers in Med. and Biol. Eng'g</i> , Vol. 1, No. 2 (1988), pp. 119-130.	

Examiner Signature		Date Considered	12-1-05
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Substitute for form 1449A/PTO		OCT 25 2004		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/087,153
				Filing Date	February 28, 2002
				First Named Inventor	PAVLOVSKAIA, ELENA
				Art Unit	3732
				Examiner Name	MANAHAN, TODD E.
Sheet 1	of 10	Attorney Docket Number		018563-002910US	

U.S. PATENT DOCUMENTS*					
Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
[Signature]	AA	2,467,432	04-19-1949	Kesling	
	AB	3,660,900	05-09-1972	Andrews	
	AC	3,860,803	01-14-1975	Levine	
	AD	3,916,526	11-04-1975	Schudy	
	AE	3,950,851	04-20-1976	Bergersen	
	AF	4,014,096	03-29-1977	Oellinger	
	AG	4,195,046	03-25-1980	Kesling	
	AH	4,324,546	04-13-1982	Hellinger et al.	
	AI	4,348,178	09-07-1982	Kurz	
	AJ	4,478,580	10-23-1984	Barrut	
	AK	4,504,225	03-12-1985	Yoshii	
	AL	4,505,673	03-19-1985	Yoshii	
	AM	4,575,805	03-11-1986	Moermann, et al.	
	AN	4,611,288	09-09-1986	Duret et al.	
	AO	4,656,860	04-14-1987	Orthuber et al.	
	AP	4,663,720	05-05-1987	Duret et al.	
	AQ	4,742,464	05-03-1988	Duret et al.	
	AR	4,755,139	07-05-1988	Abbatte et al.	
	AS	4,763,791	08-16-1988	Halverson et al.	
	AT	4,793,803	12-27-1988	Martz	
	AU	4,798,534	01-17-1989	Breads	
	AV	4,837,732	06-06-1989	Brandestini et al.	
	AW	4,850,864	07-25-1989	Diamond	
	AX	4,856,991	08-15-1989	Breads et al.	
	AY	4,938,862	06-26-1990	Walker et al.	
	AZ	4,937,928	07-03-1990	van der Zee	
	BA	4,964,770	10-23-1990	Steinbichler et al.	
	BB	4,975,052	12-04-1990	Spencer et al.	
	BC	5,011,405	04-30-1991	Lemchen	
	BD	5,017,133	05-21-1991	Miura	
BE	5,027,281	06-25-1991	Rakow et al.		
BF	5,035,613	07-30-1991	Breads et al.		
BG	5,055,039	10-08-1991	Abbatte et al.		
BH	5,059,118	10-22-1991	Breads et al.		
BI	5,100,316	03-31-1992	Widman		
BJ	5,121,333	06-09-1992	Riley et al.		
BK	5,128,870	07-07-1992	Erdman et al.		
BL	5,131,843	07-21-1992	Higiers et al.		
BM	5,131,844	07-21-1992	Marinaccio et al.		
BN	5,139,419	08-18-1992	Andreiko et al.		
BO	5,184,306	02-02-1993	Erdman et al.		
Examiner Signature	Todd E. Manahan Primary Examiner		Date Considered	12-6-04	

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Substitute for form 1449A/PTO			Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/087,153
			Filing Date	February 28, 2002
			First Named Inventor	PAVLOVSKAIA, ELENA
			Art Unit	3732
			Examiner Name	MANAHAN, TODD E.
Sheet 2	of 10	Attorney Docket Number	018563-002910US	

U.S. PATENT DOCUMENTS*						
Examiner Initials	Cite No.	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
[Handwritten marks]	BP	5,186,623		02-16-1993	Breads et al.	
	BQ	5,257,203		10-26-1993	Riley et al.	
	BR	5,273,429		12-28-1993	Rekow et al.	
	BS	5,278,756		01-11-1994	Lemchen et al.	
	BT	5,338,198		08-16-1994	Wu et al.	
	BU	5,340,309		08-23-1994	Robertson	
	BV	5,342,202		08-23-1994	Deshayes	
	BW	5,368,478		11-29-1994	Andreiko et al.	
	BX	5,382,164		01-17-1995	Stem	
	BY	5,395,238		03-07-1995	Andreiko et al.	
	BZ	5,431,562		11-11-1995	Andreiko et al.	
	CA	5,440,496		08-08-1995	Andersson et al.	
	CB	5,447,432		09-05-1995	Andersson et al.	
	CC	5,452,219		09-19-1995	Dehoff et al.	
	CD	5,464,717		10-03-1995	Andreiko et al.	
	CE	5,456,600		10-10-1995	Andreiko et al.	
	CF	5,474,448		12-12-1995	Andreiko et al.	
	CG	5,518,397		05-21-1996	Andreiko et al.	
	CH	5,533,895		07-09-1996	Andreiko et al.	
	CI	5,542,842		08-06-1996	Andreiko et al.	
	CJ	5,549,476		08-27-1996	Stem	
	CK	5,587,912		12-24-1996	Andersson et al.	
	CL	5,605,459		02-25-1997	Kuroda et al.	
	CM	5,607,305		03-04-1997	Andersson et al.	
	CN	5,645,421		07-08-1997	Slootsky	
	CO	5,655,853		08-12-1997	Chester	
	CP	5,683,243		11-04-1997	Andreiko et al.	
	CQ	5,733,126		03-31-1998	Andersson et al.	
CR	5,740,267		04-14-1998	Echerer et al.		
CS	5,975,893		11-02-1999	Chishtil et al.		

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	CT	EP	091,878	A1	10-10-1983	Duret		<input type="checkbox"/>
	CU	EP	299,490	A2	01-18-1989	Steinbichler et al.		
	CV	EP	376,673	A2	07-04-1990	Shafit		
	CW	EP	490,848	B1	06-17-1982	Andersson et al.		
	CX	EP	544,600	A1	06-12-1988	Andersson et al.		

Examiner Signature	<i>Todd E. Manahan</i>	Date Considered	12-6-04
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Substitute for form 1448A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **3** of **10****Complete if Known**

Application Number	10/087,153
Filing Date	February 28, 2002
First Named Inventor	PAVLOVSKAJA, ELENA
Art Unit	3732
Examiner Name	MANAHAN, TODD E.
Attorney Docket Number	018583-002910US

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code ²	Number ³	Kind Code ⁴ (if known)				
	CY	EP	731,875	B1	09-18-1996	Andersson et al.		
	CZ	EP	774,922	B1	09-29-1997	Oden et al.		
	DA	FR	2,652,256	A1	03-29-1991	Jourda		<input type="checkbox"/>
	DB	FR	2,369,628	A1	06-02-1978	Suyehiro		<input type="checkbox"/>
	DC	WO	80/06,312	A1	06-09-1990	Lemercen		<input type="checkbox"/>
	DE	WO	91/04,713	A1	04-18-1991	Jourda et al.		<input type="checkbox"/>
	DE	WO	94/10,935	A1	05-26-1994	Andreilko et al.		<input type="checkbox"/>
	DE	WO	98/44,865	A1	10-15-1998	Andersson		<input type="checkbox"/>
	DE	WO	98/58,596	A1	12-30-1998	Chishu et al.		<input type="checkbox"/>

Examiner
Signature

Todd E. Manahan

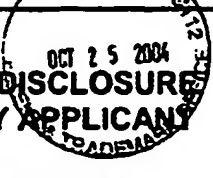
Primary Examiner

Date
Considered

12 - 6 - 04

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Substitute for form 1449B/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number		10/087,153	
		Filing Date		February 28, 2002	
		First Named Inventor		PAVLOVSKAIA, ELENA	
		Art Unit		3732	
		Examiner Name		MANAHAN, TODD E.	
Sheet	4	of	10	Attorney Docket Number 018563-002910US	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T 2
—	OH	ALEXANDER et al., "The DigGraph Work Station Part 2, Clinical Management," JCO (July 1990), pp. 402-407.		
—	OI	ALTSCHULER et al., "Laser Electro-Optic System for Rapid Three-Dimensional (3D) Topographic Mapping of Surfaces," Optical Engineering, Vol. 20(6) (1981), pp. 953-964.		
—	OJ	ALTSCHULER et al., "Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix," SPIE Imaging Applications for Automated Industrial Inspection and Assembly, vol. 102 (1979), p. 187-191.		
—	OK	ALTSCHULER et al., "Analysis of 3-D Data for Comparative 3-D Serial Growth Pattern Studies of Oral-Facial Structures," Program and Abstracts of Papers, Feb. 1973, Journal of Dental Research, Vol. 54, IADR Abstracts 1973, 2 pages total.		
—	OL	ALTSCHULER, "3D Mapping of Maxillo-Facial Prostheses," IADR Abstract #607, 1980, 2 pages total.		
—	OM	American Association for Dental Research, Summary of Activities, March 20-23, 1980, Los Angeles, CA, p. 188.		
—	ON	ANDERSSON et al., "Clinical Results with Titanium Crowns Fabricated with Machine Duplication and Open-Casting," Acta Odontologica Scandinavica, vol. 47 (1989), pp. 379-386.		
—	OO	BAUMRIND et al., "A stereophotogrammetric system for the detection of prosthesis loosening in total hip arthroplasty: Applications of Human Biostereometrics (HATO)," Proceedings of the Society of Photo-Optical Instrumentation Engineers, Vol. 160, July 9-10, 1978, pp. 112-128.		
—	OP	BAUMRIND et al., "Mapping the Skull in 3-D, Reprinted from The Journal, California Dental Association, Vol. 48, No. 3 (1972 Fall Issue) 44 pages total.		
—	OQ	BAUMRIND et al., "Seminars in Orthodontics," Seminars in Orthodontics, Vol. 7, No. 4 (Dec. 2001), p. 223.		
—	OR	BAUMRIND, "A System for Craniofacial Mapping Through the Integration of Data from Stereo X-Ray Films and Stereo Photographs," An invited paper submitted to the 1975 American Society of Photogrammetry Symposium on Close-Range Photogram Systems, University of Ill., Aug. 26-30, 1975, pp. 1-25.		
—	OS	BAUMRIND, "Integrated Three-Dimensional Craniofacial Mapping: Background, Principles, and Perspectives," Seminars in Orthodontics, Vol. 7, No. 4 (Dec. 2001), pp. 223-333.		
—	OT	BEGOLE et al., "A Computer System for the Analysis of Dental Casts," The Angle Orthodontist, Vol. 61 No. 3 (July 1991), pp. 250-256.		
—	OU	BERNARD et al., "Computerized diagnosis in Orthodontics for Epidemiological Studies" (progress report), Abstracts of Papers, Journal of Dental Research, Vol. 71, Special Issue March 1-14, 1992, pp. 60-66.		
—	OV	BHATIA et al., "A Computer Aided Design for Orthognathic Surgery," British Journal of Oral and Maxillofacial Surgery, Vol. 22 (1984), pp. 237-253.		
—	OW	BIGGERSTAFF et al., "Computerized analysis of occlusion in the postcanine dentition," American Journal of Orthodontics, Vol. 61, No. 3 (Mar. 1972), pp. 245-254.		

Examiner Signature	Todd E. Manahan	Date Considered	12-6-04
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete If Known Application Number: 10/087,153 Filing Date: February 28, 2002 First Named Inventor: PAVLOVSKAIA, ELENA Art Unit: 3732 Examiner Name: MANAHAN, TODD E. Attorney Docket Number: 018563-002910US	
Sheet	5	of	10

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	DX	BIGGERSTAFF, "Computerized Diagnostic Setup and Simulations," <i>The Angle Orthodontist</i> , Vol. 40, No. 1 (Jan. 1970), pp. 29-36.	
	DY	BRANDESTINI et al., "Computer Machined Ceramic Inlays: In Vitro Marginal Adaptation," <i>Journal of Dental Research</i> , Vol. 64, Suppl. 1, 1985, IADR Abstracts 1985, 1 page total.	
	DZ	BROOK et al., "An Image Analysis System for the Determination of Tooth Dimensions from Study Casts: Comparison with Manual Measurements of Mesio-distal Crameter," <i>Abstract of Papers</i> , 1985, Dept. of Children's Dentistry and Orthodontics, J Dent Res., March 1986, pp. 428-431.	
	EA	BURSTONE (interview), "Dr. Charles J. Burstone on The Uses of the Computer in Orthodontic Practice (Part 1 and 2)," <i>Journal of Clinical Orthodontics</i> , (Part 1) Vol. 8, No. 7, July 1979; (Part 2) Vol. 8, No. 8 pp. 539-551, Aug. 1979.	
	EB	BURSTONE et al., "Precision adjustment of the transpalatal-lingual arch: Computer arch form predetermination," <i>Am. Journal of Orthodontics</i> , Vol. 78, No. 2 (Feb. 1981), pp. 145-153.	
	EC	CHACONAS et al., "The Digigraph Work Station, Part 1, Basic Concepts," <i>ICO</i> (June 1990), pp. 360-367.	
	ED	CHAFETZ et al., "Subsidence of the Femoral Prosthesis, A Stereophotogrammetric Evaluation," <i>Clinical Orthopedics and Related Research</i> , No. 261 (December 1985), pp. 66-67.	
	EE	CHAPONE, "Constructing the orthodontic setup and positioner," <i>J. Clin. Orthod.</i> , 14:121-133, 1980.	
	EF	GOTTINGHAM, "Orthodontic clear plastic positioner," <i>Am. J. Orthod.</i> , 55:23-31, 1969.	
	EG	CRAWFORD, "Computers in Dentistry: Part 1: CAD/CAM: The Computer Moves Ghaemide," "Part 2: F. Duret - A Man With A Vision," "Part 3: The Computer Gives New Vision: Literally," "Part 4: Bytes - N Bites" "The Computer Moves From The Front Desk To The Operator," <i>Canadian Dental Journal</i> , vol. 64(8), (1988), pp. 661-666.	
	EH	CRAWFORD, "CAD/CAM in the Dental Office: Does It Work?" <i>Canadian Dental Journal</i> , Vol. 57, No. 2 (Feb. 1991), pp. 121-123.	
	EI	GROOKS, "CAD/CAM Comes to USC," <i>USC Dentistry</i> , (Spring 1990) pp. 44-47.	
	EJ	GURETTON, "Correcting malaligned mandibular incisors with removable retainers," <i>J. Clin. Orthod.</i> , 30:300-305, 1996.	
	EK	CURRY et al., "Integrated Three Dimensional Craniofacial Mapping of the Craniofacial Research Instrumentation Laboratory/University of the Pacific," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 256-266.	
	EL	GUTTING et al., "Three Dimensional Computer Assisted Design of Craniofacial Surgical Procedures: Optimization and Interaction with Cephalometric and CT-Based Models," <i>Plastic and Reconstructive Surgery</i> , Vol. 77, No. 6 (June 1996), pp. 677-683.	
	EM	DCS Dental AG, "The CAD/CAM DCS Titan System for Production of Crowns/Bridges," <i>DGO - Production AG</i> , Jan. 1992, pp. 4-7.	

Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	12-6-04
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete If Known Application Number 10/087,153 Filing Date February 28, 2002 First Named Inventor PAVLOVSKAIA, ELENA Art Unit 3732 Examiner Name MANAHAN, TODD E. Attorney Docket Number 018563-002810US	
Sheet	6	of	10

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—	EN	DEFRANCO et al., "Three-Dimensional Large Displacement Analysis of Orthodontic Appliances," <i>J. Biomechanics</i> , Vol. 9 (1976), pp. 793-894.	
—	EO	Dental Institute University of Zurich, Switzerland, Program for International Symposium on Computer-Assisted Restorations: State of the Art of the CEREC Method, May 1991, 3 pages total.	
—	EP	DentFree Corporation, Dentat document, pp. 4-18.	
—	EQ	DURET et al., "CAD/CAM in Dentistry," <i>Journal of the American Dental Association</i> , Vol. 117 (Nov. 1988), pp. 715-720.	
—	ER	DURET et al., "CAD/CAM imaging in dentistry," <i>Current Opinion in Dentistry</i> , Vol. 1 (1991), pp. 150-154.	
—	ES	DURET, "The Dental CAD/CAM, General Description of the Project," <i>Hannover International Product Brochure</i> , Jan. 1986, 10 pages total.	
—	ET	DURET, "Vers une prothese informatisee," (English translation also attached), <i>Tonus</i> , vol. 75, (Nov. 15-1986), pp. 55-57.	
—	EU	ECONOMIDES, "The Microcomputer in the Orthodontic Office," <i>JCO</i> , (Nov. 1978), pp. 767-772.	
—	EV	ELSASSER, "Some observations on the history and uses of the Kesting positioner," <i>Am. J. Orthod.</i> , 36:368-374, 1950.	
—	EW	FABER et al., "Computerized interactive orthodontic treatment planning," <i>Am. J. Orthod.</i> , Vol. 73, No. 1 (Oct. 1978), pp. 36-40.	
—	EX	FELTON et al., "A computerized analysis of the shape and stability of mandibular arch form," <i>Am. Journal of Orthodontics and Dentofacial Orthopedics</i> , Vol. 92, No. 6 (Dec. 1987), pp. 470-483.	
—	EY	FRIEDE et al., "Accuracy of Cephalometric Prediction in Orthognathic Surgery," <i>Abstract of Papers, Journal of Dental Research</i> , Vol. 70 (1987), pp. 754-760.	
—	EZ	GIM-ALDENT Deutschland, "Das DUX System: Die Technik" 4 pages total.	
—	FA	GRAYSON, "New Methods for Three Dimensional Analysis of Craniofacial Deformity," <i>Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery</i> , AAOMS Sept. 18, 1980, 3 pages total.	
—	FB	QUESS et al., "Computer Treatment Estimates in Orthodontics and Orthognathic Surgery," <i>JCO</i> , (April, 1989), pp. 262-28.	
—	FC	HEAVEN et al., "Computer-based Image Analysis of Artificial Root Surface Curves," "Automated Identification of Landmarks in Cephalometric Radiographs," <i>Abstracts of Papers, Journal of Dental Research</i> , Vol. 67, March 9-13, 1988, 2 pages total.	

Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	12-6-04
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PTO/SB/019 (01-03)

Substitute for form 1449B/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/087,153	
			Filing Date	February 28, 2002	
			First Named Inventor	PAVLOVSKAIA, ELENA	
			Art Unit	3732	
			Examiner Name	MANAHAN, TODD E.	
Sheet	7	of	10	Attorney Docket Number	018583-002910US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	FD	HOFFMANN et al., "Role of Cephalometry for Planning of Jaw Orthopedics and Jaw Surgery Procedures," (Article Summary in English, abstract in German), Information, (March 1994), pp. 374-390.	
	FE	HUCKINS, "CAD-CAM Generated Mandibular Model Prototype from MRI Data," AAOOMS-1999, p. 96.	
	FF	Inside the ADA, Journal Of The American Dental Assoc., Vol. 118 (March 1989) 0 pages total.	
	FG	JCO Interviews, "Craig Andreiko, DDS, MS on the Eplan and Orthos Systems," JCO, (Aug. 1994), pp. 469-468.	
	FH	JCO Interviews, "Dr. Homer W. Phillips on Computers in Orthodontic Practice, Part 2," JCO, (Dec. 1993), pp. 810-831.	
	FI	KEITHCOB, "The problem, electronic data transmission and the law," AJO-DO, (Apr. 1984), pp. 476-479.	
	FJ	JONES et al., "An Assessment of the Fit of a Parabolic Curve to Pre- and Post-Treatment Dental Arches," British Journal of Orthodontics, Vol. 16 (1989), pp. 85-93.	
	FK	KAMADA et al., "Case reports on tooth positioners using LTV vinyl silicone rubber" J. Nihon University School of Dentistry, 26(1):11-29, 1984.	
	FL	KAMADA et al., "Construction of tooth positioners with LTV vinyl silicone rubber and some case reports" J. Nihon University School of Dentistry, 24(1):1-27, 1982.	
	FM	KANAZAWA et al., "Three Dimensional Measurements of the Occlusal Surfaces of Upper Molars in a Dutch Population," J. Dent Res., Vol. 63, No. 11 (Nov. 1984), no. 1298-1301.	
	FN	KESLING, "Coordinating the predetermined pattern and tooth positioner with conventional treatment," Am. J. Orthod. Oral Surg., 32:285-293, 1946.	
	FO	KESLING, "The philosophy of the tooth-positioning appliances" Am. J. Orthod. Oral Surg., 31(6):292-302, 1943.	
	FP	KLEEMANN et al., "The speed positioner" J. Clin. Orthod., 38:670-680, 1998.	
	FQ	KUBOTA et al., "Three-dimensional dental cast analyzing system using laser scanning" Am. J. Orthod. Dentofac. Orthop., 110:303-309, 1996.	
	FR	LAURENDEAU et al., "A Computer Vision Technique for the Acquisition and Processing of 3-D Profiles of Dental Imprints: An Application in Orthodontics," IEEE Transactions on Medical Imaging, Vol. 10, No. 3 (Sept. 1991), pp. 433-481.	
	FS	LEINFELDER et al., "A new method for generating ceramic restorations: a CAD-CAM system," Journal Of The American Dental Assoc., Vol. 118, No. 6 (Jun. 1989), pp. 702-707.	

Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	12-6-04
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PTO/SB/01B (03-03)

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **8** of **10**

Complete if Known

Application Number	10/087,153
Filing Date	February 28, 2002
First Named Inventor	PAVLOVSKAIA, ELENA
Art Unit	3732
Examiner Name	MANAHAN, TODD E.
Attorney Docket Number	018563-002910US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	FT	MONAMARA et al., "Orthodontic and Orthopedic Treatment in the Mixed Dentition," Needham Press, January 1983, pp. 347-353.	
	FU	MONAMARA et al., "Invisible Retainers," J. Clinical Orthodontics, (August 1985) pp. 570-578.	
	FV	MOERMANN et al., "Computer-Machined Adhesive Porcelain Inlays: Marginal Adaptation after Fatigue Stress," IADR Abstract 338, Journal of Dental Research, vol. 66(e) (1987), p. 339.	
	PW	MORMANN et al., "Marginal Adaptation von adhäsiven Porzellaninlays in vitro," Schweizerische Monatsschrift für Zahnmedizin, Vol. 85 (1985), p. 1118-1129.	
	FX	MORMANN et al., "Marginal Adaptation von adhäsiven Porzellaninlays in vitro," Separatdruck aus: Schweiz. Mschr. Zahnmed. 85: 1110, 1983.	
	FY	NAHOU, "The vacuum formed dental contour appliance" The New York State Dental Journal, 20(2):285-300, Nov. 1964.	
	FZ	NAOH, "CEREC CAD/CAM Inlays: Aesthetics and Durability in a Single Appointment," Dentistry Today, (October 1990), pp. 20, 22-23, 54.	
	GA	NISHIYAMA et al., "A new construction of tooth repositioner by LTV-vinyl silicone rubber" J. Nihon University School of Dentistry, 19(2):83-102, 1973.	
	GB	PINKHAM, "Feelish Concept Propels Technology," Dentist Jan/Feb. 1989, 3 pages total.	
	GC	PINKHAM, "Inventor's CAD/CAM may transform dentistry," Dentist, Sept. 1990, 3 pages total.	
	GD	RENTZ, Invisible Retainers, 60 Am. J. Orthodontics, March 1971, pp. 200-272.	
	GE	Process Research Projects, PROCERA Research Projects 1993 — Abstract Collection, 1993, pp. 2-28.	
	GF	REKOW, "A Review of the Developments in Dental CAD/CAM Systems," (contains references to Japanese efforts and content of the papers of particular interest to the clinician are indicated with a one-line summary of their content in the bibliography), Dental Clinics Prosthodontics and Endodontics, pp. 25-33, 1992.	
	GG	REKOW, "CAD/CAM in Dentistry: A Historical Perspective and View of the Future," Journal, Vol. 68 No. 4, (Apr 1992), pp. 283-289.	
	GH	REKOW, "Computer-Aided Design and Manufacturing in Dentistry: A Review of the State of the Art," The Journal of Prosthetic Dentistry, Vol. 58, No. 4 (Oct. 1987), pp. 512-518.	
	GI	REKOW, "Dental CAD-CAM Systems: What is the State of the Art?" Journal of the American Dental Assoc., Vol. 122 (1991), pp. 43-48.	

Examiner Signature	Todd E. Manahan Principal Examiner	Date Considered	12-6-04
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OCT 25 2004

PTO/SB/018 (02-03)

Substitute for form 1449B/PTO			Complete If Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/087,153	
			Filing Date	February 28, 2002	
			First Named Inventor	PAVLOVSKAJA, ELENA	
			Art Unit	3732	
			Examiner Name	MANAHAN, TODD E.	
Sheet	9	of	10	Attorney Docket Number	018563-002910US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	0J	RENOW, "Feasibility of an Automated System for Production of Dental Restorations," PhD Thesis, Univ. of Minnesota, Nov. 1986, 244 pages total.		
	GK	RICHMOND et al., Research Reports, "The development of a 3D Cast Analysis System," British Journal of Orthodontics, pp. 53-54.		
	GL	RICHMOND, "Recording the dental cast in three dimensions," Am. J. Orthod. Dentofac. Orthop., Vol. 102, No. 3, (Sept. 1992), pp. 389-398.		
	GM	RUDGE, "Dental arch analysis: arch form. A review of the literature," European Journal of Orthodontics, Vol. 3, No. 4 (1981), pp. 279-284.		
	GN	SAKUDA et al., "Integrated information processing system in clinical orthodontics: An approach with use of a computer network system," Am. J. Orthod. Dentofac. Orthop., Vol. 101 No. 3 (March 1992), pp. 210-220.		
	GO	SCHILLHAS et al., "Three-Dimensional Computer Tomography in Mandibular Surgical Planning," Arch. Otolaryngol. Head Neck Surg., Vol. 114 (April 1988), pp. 438-442.		
	GP	SEGU et al., "Computer-aided Cephalometry and New Mechanics in Orthodontics" (Article Summary in English, article in German), Fortsch. Kieferorthop., 44, 370-376 (Nr. 3), 1993.		
	GQ	SHILLDAY, "Minimizing finishing problems with the mini-positioner," Am. J. Orthod., 59, 386-399, 1971.		
	GR	Siemens, "CEREO - Computer Reconstruction," High Tech in der Zahnmedizin, 14 pages total.		
	GS	Siemens Dental Systems GmbH, CEREO 80, Manual utilisation, Version 2.0X (in French), 2003, 122 pages total.		
	GT	STOLL et al., "Computer-aided Technologies in Dentistry" (Article Summary in English, article in German), Dtsch. Zahnärztl. Z. 45, 314-322, 1990.		
	GU	U.S. Department of Commerce, National Technical Information Service, "Automated Crown Replication Using Solid Photography SM," Solid Photography Inc. Mahwah NY, October 1977, 21 pages total.		
	GV	U.S. Department of Commerce, National Technical Information Service, "Hologentography: An Introduction to Dental Laser Holography," School of Aerospace Medicine Brooks AFB Tex, March 1978, 67 pages total.		
	GW	U.S. Provisional Patent Application No. 60/050342, filed on June 20, 1987, 41 pages total.		
	GX	VAN DER LINDEN et al., "Three-Dimensional Analysis of Dental Casts by Means of the Optocom," Dent. Res., July-August 1972, p. 1101.		
	GY	VAN DER LINDEN, "A New Method to Determine Teeth Positions and Dental Arch Dimensions," July-August 1972, p. 1104.		

Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	12-6-01
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PTO/SB/08B (08-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 10

of 10

Complete if Known

Application Number	10/087,153
Filing Date	February 28, 2002
First Named Inventor	PAVLOVSKAIA, ELENA
Art Unit	3732
Examiner Name	MANAHAN, TODD E.
Attorney Docket Number	018563-002910US

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	GZ	VAN DER ZEL, "Ceramic fused to metal Restorations with a New CAD/CAM System," <i>Quintessence International</i> , vol. 24(11) (1993), pp. 769-770.	
	HA	VARADY et al., "Reverse Engineering of Cosmetic Models - An Introduction," May 13, 1998, pp. 4-28.	
	HB	WARUNSK et al., "Clinical use of silicone elastomer appliances" <i>JGO, MM</i> (10):694-700, 1993.	
	HC	WARUNSK et al., "Physical and mechanical properties of elastomers in orthodontic positioners" <i>Am. J. Orthod. Dentofac. Orthop.</i> , 68:388-400, 1995.	
	HD	WELLS, "Application of the positioner appliance in orthodontic treatment" <i>Am. J. Orthodont.</i> , 58:364-368, 1970.	
	HE	WILLIAMS, "Dentistry and CAD/CAM: Another French Revolution," <i>Journal of Dental Practice Admin.</i> , Jan/Feb 1987, pp. 3-5.	
	HF	WILLIAMS, "The Switzerland and Minnesota Developments in CAD/CAM," <i>Journal of Dental Practice Admin.</i> , pp. 58-59, April/June 1987.	
	HG	WISHMAN, "New Advances in Personal Computer Applications for Cephalometric Analysis, Growth Prediction, Surgical Treatment Planning and Imaging Processing," Symposium: Computerized Partial Imaging in Oral and Maxillofacial Surgery, AAOMS, Sept. 18, 1990, p. 5.	
	HH	YAMAMOTO et al., "Three Dimensional Measurement of Dental Cast Profiles and Its Applications to Orthodontics," <i>Annals Int'l Conf. of IEEE Engineering in Medicine and Biology Society</i> , Vol. 12, No. 3, pp. 2081-2083, 1990.	
	HI	YAMAMOTO et al., "Optical measurement of dental cast profile and application to analysis of three-dimensional tooth movement in orthodontics," <i>Prosthodontics, and Biol. Engg.</i> , Vol. 1, No. 2 (1988), pp. 119-126.	

Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	12-6-04
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